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2 Four-quadrant brushless ECM drive with integrated current regulation

*Becerra, R.C.; Ehsani, M.; Jahns, T.M.;*Industry Applications, IEEE Transactions on , Volume: 28 , Issue: 4 , July-Aug 1992
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3 Integrated current regulation for a brushless ECM drive

*Jahns, T.M.; Becerra, R.C.; Ehsani, M.;*Power Electronics, IEEE Transactions on , Volume: 6 , Issue: 1 , Jan. 1991
Pages:118 - 126
[\[Abstract\]](#) [\[PDF Full-Text \(792 KB\)\]](#) IEEE JNL

4 Four quadrant brushless ECM drive with integrated current regulation

*Becerra, R.C.; Ehsani, M.; Jahns, T.;*Industry Applications Society Annual Meeting, 1989., Conference Record of the 1989 IEEE , 1-5 Oct. 1989
Pages:819 - 828 vol.1
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5 Four-quadrant sensorless brushless ECM drive*Becerra, R.C.; Jahns, T.M.; Ehsani, M.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(692 KB\)\]](#) **IEEE CNF****6 Integrated current regulation for a brushless ECM drive***Jahns, T.M.; Becerra, R.C.; Ehsani, M.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(688 KB\)\]](#) **IEEE CNF****7 Piezomotors using flexure hinged displacement amplifiers***King, T.G.; Xu, W.;*

Innovative Actuators for Mechatronic Systems, IEE Colloquium on, 18 Oct 1991

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2 Minitact gyroscope-the low cost alternative
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Industrial Electronics, 2002. ISIE 2002. Proceedings of the 2002 IEEE International Symposium on , Volume: 2 , 8-11 July 2002

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Industry Applications Society Annual Meeting, 1992., Conference Record of the 1992 IEEE , 4-9 Oct. 1992

Pages:482 - 489 vol.1

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12 Four-quadrant sensorless brushless ECM drive

Becerra, R.C.; Jahns, T.M.; Ehsani, M.;

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13 Composite control of direct-drive robots

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Title

Four-quadrant sensorless brushless ECM drive.

Author(s)Becerra-R-C; Jahns-T-M; Ehsani-M.**Author affiliation**

GE Motors, Fort Wayne, IN, USA.

Source

APEC '91. Sixth Annual Applied Power Electronics Conference and Exposition. Conference Proceedings (Cat. No.91CH2992-6), Dallas, TX, USA, 10-15 March 1991, p.202-9.
Sponsors: IEEE, Power Sources Manuf. Assoc.
Published: IEEE, New York, NY, USA, 1991, 646 pp.

ISSN

ISBN: 0-7803-0024-6, CCCC: CH2992-6/91/0000-0202 (\$01.00).

Publication year

1991.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

P Practical.

Abstract

A four-quadrant brushless **electronically commutated motor** (ECM) drive is presented which provides high-quality torque control without discrete current sensors or a **rotor position** sensor. **Rotor position** feedback is developed by extracting sufficient information from the **motor** back-EMF voltage waveforms, and current feedback is provided by current sensors integrated into MOS-gated power switches (MOSFETs or IGBTs). Controller parts count is minimized using a custom VLSI chip which performs the **rotor position** sensing, pulse-width-modulated (PWM) current regulation, and various protection functions. The interface between the low-power logic and inverter power switches is accomplished using a high-voltage integrated circuit (HVIC) gate-driver for each of the three phase legs. Experimental results using a compact prototype ECM drive card are presented which demonstrate the desired four-quadrant performance without discrete sensors. (9 refs).

Descriptors

commutation; electric-drives; electric-motors; feedback; invertors;
machine-control; position-control; power-integrated-circuits; power-transistors; pulse-width-
modulation; rotors; torque-control; VLSI.





Keywords

machine control; **position** control; power transistors; ECM; drive; brushless **electronically commutated motor**; torque control; **rotor**; feedback; back EMF; current sensors; MOSFETs; IGBTs; VLSI; PWM; protection; logic; inverter; HVIC; gate driver; four quadrant performance.

Classification codes

B8510 (Drives).
B8310 (a.c. machines).
B8320 (d.c. machines).
B8360 (Power convertors and power supplies to apparatus).
B1210 (Power electronics, supply and supervisory circuits).
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Industry Applications, IEEE Transactions on , Volume: 35 , Issue: 4 , July-Aug 1999

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2 **A contactless capacitive angular-position sensor**

Gasulla, M.; Xiujun Li; Meijer, G.C.M.; van der Ham, L.; Spronck, J.W.;

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3 **Operation of the permanent magnet synchronous machine without a mechanical sensor**

Schroedl, M.;

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5 Impact of axial and radial rotor offset on the measurement error of capacitive angular-position sensor with modified front-end topology

Fabian, T.; Brasseur, G.; Hauser, H.;

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6 Effects of time-varying loads on rotor fault detection in induction machines

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Pages:900 - 906

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11 Virtual rotor grounding of capacitive angular position sensors

Brasseur, G.; Fulmek, P.L.; Smetana, W.;

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12 Machine inductances on variable frequency supplies

Norris, W.T.; Luff, S.; Garvey, S.D.;

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13 Adaptive control of variable reluctance motors: a spline function approach

Bortoff, S.A.; Kohan, R.R.; Milman, R.;

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14 A new sensorless position detector for SR drives

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15 Real-time detection of developing cracks in jet engine rotors

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17 **Virtual rotor grounding of capacitive angular position sensors***Brasseur, G.; Fulmek, P.L.; Smetana, W.;*

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18 **A field-oriented induction motor drive with a nonlinear state observer***Dalla Mora, M.; Manes, C.; Parasiliti, F.;*

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19 **Brushless exciter modeling for small salient pole alternators using neural network elements***Darabi, A.; Tindall, C.;*Energy Conversion, IEEE Transactions on, Volume: 17, Issue: 3, Sept. 2002
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26 A capacitive 4-turn angular-position sensor*Brasseur, G.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(184 KB\)\]](#) [IEEE JNL](#)**27 Noncontact capacitive torque sensor for use on a rotating axle***Wolffenbuttel, R.F.; Foerster, J.A.;*

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Pages:1008 - 1013

[\[Abstract\]](#) [\[PDF Full-Text \(452 KB\)\]](#) [IEEE JNL](#)**28 An incremental capacitive sensor for harsh environment***Brandsttter, B.; Brasseur, G.; Cermak, S.; Zang, H.; Fulmek, P.L.;*

Sensors, 2002. Proceedings of IEEE , Volume: 2 , 12-14 June 2002

Pages:841 - 842 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) [IEEE CNF](#)**29 Torsional inchworm ultrasonic piezomotor combining continuous rotation with precise control over angular positions and high torque output***Zhang, Q.M.; Glazounov, A.;*

Ultrasonics Symposium, 1999. Proceedings. 1999 IEEE , Volume: 1 , 17-20 Oct 1999

Pages:661 - 665 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) [IEEE CNF](#)**30 Performance prediction in saturated variable reluctance and hybrid motors***Finch, J.W.; Metwally, H.M.B.; Agber, J.A.;*

Power Electronics and Variable-Speed Drives, 1991., Fourth International Conference on , 17-19 Jul 1990

Pages:231 - 236

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Salon, S.; Bhatia, S.; Burow, D.;

Magnetics, IEEE Transactions on , Volume: 33 , Issue: 2 , March 1997
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32 **Capacitive sensor for incremental angular measurement**

Cermak, S.; Brasseur, G.; Zangl, H.; Fulmek, P.L.;

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33 **Adaptive control of variable reluctance motors using spline function**

Kohan, R.R.; Bortoff, S.A.;

Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on , Vo 2 , 14-16 Dec. 1994
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34 **Angular position adaptive control of a squirrel-cage-induction-ma**

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Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on , Vo 1 , 14-16 Dec. 1994
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